



SHEET 1 OF 1

INFORMATION DISCLOSURE  
CITATION IN AN  
APPLICATION

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ATTY. DOCKET NO.  
50229-343SERIAL NO.  
10/601,700APPLICANT  
Christopher L. SCHARDL, et al.FILING DATE  
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1616

## U.S. PATENT DOCUMENTS

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KB		M. AREVALO-RODRIGUEZ et al., "Mutations that Cause Threonine Sensitivity Identify Catalytic and Regulatory Regions of the Aspartate Kinase of <i>Saccharomyces cerevisiae</i> ", <i>Yeast</i> 15, (1999), pages 1331-1345.
		L.P. BUSH et al., "Chemistry, occurrence and biological effects of saturated pyrrolizidine alkaloids associated with endophyte-grass interactions", <i>Agriculture, Ecosystems and Environment</i> , 44, (1993), pages 81-102.
		N.P. KELLER, "REVIEW: Metabolic Pathway Gene Clusters in Filamentous Fungi", <i>Fungal Genetics and Biology</i> , 21, (1997), pages 17-29.
		J.A. SEO, et al., "Characterization of Four Clustered and Coregulated Genes Associated with Fumonisin Biosynthesis in <i>Fusarium verticillioides</i> ", <i>Fungal Genetics and Biology</i> , 34, (2001) pages 155-165.
		P. TUDZYNSKI et al., "Evidence for an ergot alkaloid gene cluster in <i>Claviceps purpurea</i> ", <i>Mol. Gen. Genet.</i> , (1999), 261, pages 133-141.
		A. LEUCHTMANN et al., "Different Levels of Protective Alkaloids in Grasses with Stroma-Forming and Seed-Transmitted <i>Epichloa/Neotyphodium</i> Endophytes", <i>Journal of Chemical Ecology</i> , Vol. 26, No. 4, 2000, pages 1025-1036.
		H.H. WILKINSON et al., "Contribution of Fungal Loline Alkaloids to Protection from Aphids in a Grass-Endophyte Mutualism", <i>MPMI</i> , Vol. 13, No. 10, 2000, pages 1027-1033.
		M.R. SIEGEL et al., "Fungal Endophyte-Infected Grasses: Alkaloid Accumulation and Aphid Response", <i>Journal of Chemical Ecology</i> , Vol. 16, No. 12, 1990, pages 3301-3315.
		C.O. MILES et al., "High Levels of Ergonovine and Lysergic Acid Amide in Toxic <i>Achnatherum inebrians</i> Accompany Infection by an <i>Acremonium</i> -like Endophytic Fungus", <i>J. Agric. Food Chem.</i> , 1996, 44, pages 1285-1290.
		M.R. TEPASKE et al., "Analyses of Selected Endophyte-Infected Grasses for the Presence of Loline-Type and Ergot-Type Alkaloids", <i>J. Agric. Food Chem.</i> , 1993, 41, pages 2299-2303.
		K.D. CRAVEN et al., "Hybrid fungal endophytes symbiotic with the grass <i>Lolium pratense</i> ", <i>Sydowia</i> , 53(1), pages 44-73.
		M.J. CHRISTENSEN et al., "Taxonomy of <i>Acremonium</i> endophytes of tall fescue ( <i>Festuca arundinacea</i> ), meadow fescue ( <i>F. pratensis</i> ) and perennial rye-grass ( <i>Lolium perenne</i> )", <i>Mycol. Res.</i> , 97, (9), (1993), pages 1053-1092.
		A. LEUCHTMANN et al., "Mating compatibility and phylogenetic relationships among two new species of <i>Epichloa</i> and other congeneric European species", <i>Mycol. Res.</i> 102, (10), (1998), pages 1169-1182.
KB		M.J. SPIERING et al., "Expressed sequence tags and genes associated with loline alkaloid expression by the fungal endophyte <i>Neotyphodium uncinatum</i> ", <i>Fungal Genetics and Biology</i> , (2000), pages 1-13.

EXAMINER

Kagan G. Yegorov

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KG		Z. LIN et al., "Rapid Mini-Scale Plasmid Isolation for DNA Sequencing and Restriction Mapping", BioTechniques, Vol. 29, September 2000, pages 466-468.					
		T.H. AL-SAMARRAI et al., "A simple method for extraction of fungal genomic DNA", Letters in Applied Microbiology, 2000, Vol. 30, pages 53-56.					
		S.F. ALTSCHUL et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Research, 1997, Vol. 25, No. 17, pages 3389-3402.					
		J.D. BLANKENSHIP et al., "Production of loline alkaloids by the grass endophyte, <i>Neotyphodium uncinatum</i> , in defined media", Phytochemistry, Vol. 58, (2001), pages 395-401.					
		M.L. BOGUSH et al., "Identification and localization of differences between <i>Escherichia coli</i> and <i>Salmonella typhimurium</i> genomes by suppressive subtractive hybridization", Molecular and General Genetics, (1999), Vol. 262, pages 721-729.					
		L.P. BUSH et al., "Bioprotective Alkaloids of Grass-Fungal Endophyte Symbioses", Plant Physiol., (1997), Vol. 114, pages 1-7.					
		A.D. BYRD et al., "The $\beta$ -tubulin gene of <i>Epichloa typhina</i> from perennial ryegrass ( <i>Lolium perenne</i> )", Current Genetics, (1990), Vol. 18, pages 347-354.					
		L. DIATCHENKO et al., "Suppression subtractive hybridization: A method for generating differentially regulated or tissue-specific cDNA probes and libraries", Proceedings of the National Academy of Sciences of the United States of America, June 11, 1998, Vol. 95, No. 12, pages 6025-6030.					
		L. DIATCHENKO et al., "Suppression Subtractive Hybridization: A Versatile Method for Identifying Differentially Expressed Genes", cDNA Preparation and Characterization, Methods in Enzymology, Vol. 303, pages 349-380.					
		Y. WANG et al., "A Rapid CTAB DNA Isolation Technique Useful for RAPD Fingerprinting and Other PCR Applications", BioFeedback, Vol. 14, No. 5, (1993).					
		W.O. ENDEGE et al., "Representative cDNA Libraries and Their Utility in Gene Expression Profiling", BioTechniques, Vol. 26, No. 2, (March 1999), pages 542-550.					
		F.S. GIMBLE et al., MiniReview, "Invasion of a multitude of genetic niches by mobile endonuclease genes", FEMS Microbiology Letters, Vol. 185, (2000), pages 99-107.					
		P. LIANG et al., "Differential Display of Eukaryotic Messenger RNA by Means of the Polymerase Chain Reaction", Science, Vol. 257, 14 August 1992, pages 967-971.					
KG		G. NICOLAS et al., "Lack of hepcidin gene expression and severe tissue iron overload in upstream stimulatory factor 2 (USF2) knockout mice", PNAS, Vol. 98, No. 15, July 17, 2001, pages 8780-8785.					
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KB		J. OSCARRSSON et al., "Pulsatile growth hormone secretion decreases S-adenosylmethionine synthetase in rat liver" Am. J. Physiol. Endocrinol Metab., Vol. 280, pages E280-E286, 2001.
KB		A. PASZEWSKI et al., "Sulphur Metabolism", <i>Aspergillus: 50 years on</i> , Vol. 29, pages 289-319.
KB		R.H. PROCTOR et al., "Tr6 Encodes an Unusual Zinc Finger Protein Involved in Regulation of Trichothecene Biosyntheses in <i>Fusarium sporotrichioides</i> ", <i>Applied and Environmental Microbiology</i> , Vol. 61, No. 5, May 1995, pages 1923-1930.
KB		D.V. REBRIKOV et al., "Mirror orientation selection (MOS): a method for eliminating false positive clones from libraries generated by suppression subtractive hybridization", <i>Nucleic Acids Research</i> , 2000, Vol. 28, No. 20, e90, pages 1-4.
KB		C.L. SCHARDL et al., "Review: <i>Epichloë festucae</i> and Related Mutualistic Symbionts of Grasses", <i>Fungal Genetics and Biology</i> , Vol. 33, pages 69-82, (2001).
KB		M. SIENKO et al., "Structure and regulation of <i>cysD</i> , the homocysteine synthase gene of <i>Aspergillus nidulans</i> ", <i>Current Genetics</i> , (1998), Vol. 33, pages 138-144.
KB		B. TOFERN et al., "Occurrence of loline alkaloids in <i>Argyrea mollis</i> (Convolvulaceae)", <i>Phytochemistry</i> , Vol. 51, (1999), pages 1177-1180.
KB		T. YASUTA et al., "DNA Sequence and Mutational Analysis of Rhizobitoxine Biosynthesis Genes in <i>Bradyrhizobium elkanii</i> ", <i>Applied and Environmental Microbiology</i> , Vol. 67, No. 11, Nov. 2001, pages 4999-5009.
KB		B. ZHUMABAYEVA et al., "Use of SMART™. Generated cDNA for Gene Expression Studies in Multiple Human Tumors", <i>BioTechniques</i> , Vol. 30, No. 1, January 2001, pages 158-163.

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